



NASA's HBCU/MI Engagement Forum at **Johnson C. Smith University**

Southern University and
A&M College

Samuel Washington,
Ph.D.



Blending Academia, Research, and Business

- Five Campuses
- Only Land Grant System in the country
- Highly skilled experts: engineering, environmental, logistical communication, integration, cybersecurity, research/development
- Secured \$25 million in federal contracts since 1999
- Proficiency as both PRIME and SUBCONTRACTOR
- Large capacity of resources and infrastructure
- Located in the center of the city's HUBzone Map
- Three-time NUNN Perry team awardee

University Programs and Degrees

- **College of Agricultural, Family and Consumer Sciences**

- BS, Apparel Merchandising and Textiles (AMTX)
- BS, Child Development (CHDV)
- BS, Human Nutrition and Food (HNFD)

- **College of Business**

- BS, Accounting, Finance and Economics
- BS, Management and Marketing
- MA, Business Administration

- **Nelson Mandela College of Government and Social Sciences**

- BS, Political Science
- MA, Criminal Justice
- MA, Public Administration
- Ph.D., Public Policy

- **College of Humanities and Interdisciplinary Studies**

- *School of Education (Curriculum and Instruction)*
 - BS, Elementary Education
 - BS, Secondary Education
 - » Biology with teacher certification
 - » Chemistry with teacher certification
 - » Physics with teacher certification
 - » History with teacher certification
 - » Mathematics with teacher certification
 - » English with teacher certification
 - » Music (K-12) vocal or instrumental with teacher certification
- *School of Education (Educational Leadership and Policy Studies)*
 - MA, Clinical Mental Health Counseling
 - MA, School Counseling
 - MA, Education Leadership
 - MA, Teaching

College of Nursing and Allied Health

School of Nursing

- BS, Nursing
- MS, Nursing
- Ph.D., Nursing

College of Sciences and Engineering

- BS, Civil and Environmental
- BS, Electrical
- BS, Mechanical
- BS, Electronical Engineering Technology
- BS, Computer Science
- BS, Biology
- BS, Chemistry
- BS, Mathematics
- BS, Physics
- MS, Engineering
- Ph.D., Environmental Toxicology
- Ph.D., Science and Math Education

Graduate School

Honors College

International Education



Core Research Competencies

ENGINEERING SERVICES

Mechanical Engineering

Manufacturing, Materials, Thermal Science/Fluids
Energy Conservation, Composite Materials
Experimental Solid Mechanics
Failure Criteria and Stress Analysis
Computer Modeling (CAD, Revit)
Material Science, Nanotechnology, Robotics

Electrical Engineering

Airborne Radar Modeling and Simulation
Solid State Devices and Microelectronics Fabrication
Telecommunications and Networking
High Performance Computing and Visualization

Civil and Environmental Engineering

Environmental Science/Engineering
Environmental Design and Modeling
Environmental Remediation / Restoration
Geotechnical (Soil Mechanics)
Structural Engineering
(*structural mechanics computational methods*)
Transportation Engineering
Water Resources Management
Remote Sensing, Planning Services

DIGITAL INNOVATION INFORMATION TECHNOLOGY

Data Warehousing, Cybersecurity
High Performance Computing
Robotics, Networking / Sensor Network
Telecommunication
Technology Transfer
Biomedical / Bioinformatics
Material Science, Software Development

BUSINESS RESOURCES

Human Resource Management
Supply Chain Management
International Business Management
Accounting Systems
Management Information Systems



Past Performance

Information Security Management - ISO and Other Training Services - Defense Intelligence Agency (DIA)

Global Resource Solutions (GRS) | Protege: FWG, Inc., | Fixed Price: **HHM402-14-C-0085** | \$295,550 | Nov. 3, 2013 – Sept. 30, 2017

Scope services: Provide ISO 27001, 2000, 9001 certification training, DCAA Compliant Accounting System Certification, CISSP, CISM, CSIA, MCSE and MCSM Share-point for purpose of developing a model for establishing, implementing, operating, monitoring, reviewing, maintain and improving the clients information security management system

Information Security Management - ISO and Other Training Services - Defense Intelligence Agency (DIA)

Global Resource Solutions (GRS) | Protege: X Corps, Inc. | Fixed Price: **HHM402-14-C-0060** | \$147,835 | Nov. 3, 2014 – Sept. 14, 2016

Scope services: Provide ISO 29001, 27001, certification training, for the purpose of developing a model for establishing, implementing, operating, monitoring, reviewing, maintain and improving the clients information security management system

Information Security Management - ISO and Other Training Services - Defense Intelligence Agency (DIA)

Global Resource Solutions (GRS) | Protege: Core Mission Solutions, LLC | Fixed Price: **HHM402-15-C-0104** | \$80,960 | Oct. 1, 2015 – Sept. 29, 2016

Scope services: Provide ISO 27001 certification training, for the purpose of developing a model for establishing, implementing, operating, monitoring, reviewing, maintain and improving the clients information security management system.

Capability Maturity Model Integration (CMMI) Development Services - US Air Force

Whitney, Bradley & Brown (WBB) | Protege: Analytic Strategies, LLC | Fixed Price: **SC-16-AIR-T-00460SA** | \$129,480 | Nov. 3, 2016 – Sept. 27, 2017

Scope services: Provide CMMI for development maturity level 3 framework for organizational processes, project management/engineering activities to support performance improvement

HBCU Basic Ordering Agreement for Engineering Services - NASA

Jacobs Technology | Fixed Price: **NNM09AA20C** | \$2.0 M | Oct. 2008 – Oct. 2014

Scope services: Provide engineering services in support of the NASA Michoud Assembly Facilities in New Orleans, LA

Environmental Analytical Laboratory Services - Navy

Tetra Tech, Inc. | BOA: **N62473-10-D-0809** | \$170,000 | Jan. 14, 2013 – Dec. 31, 2014

Scope services: Provide analytical laboratory services for various environmental remediation sites throughout the US

CDRA Carbon Dioxide Removal Material Absorbent Bed Accelerated Life - Boeing

Space Exploration Houston, TX, ISS Program | Fixed Price: **D684-15347-01** | \$53K | Sept. 2013 – Aug. 2015

Scope of services: Provide testing and evaluation of carbon dioxide removal material.

Alternate Gas Trap Assembly Materials Performance - Boeing | Space Exploration Houston, TX, ISS Program

Fixed Price: **D684-15347-01** | \$46,378 K | Sept. 2013 – Aug. 2015 | Scope of services: Provide testing and chemical evaluation of materials used in the Alternate Gas Trap Assembly



University Points of Contact

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